September 28, 2006

OBLON
SPIVAK
MCCLELLAND
MAIER
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P.C.

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UNITED STATES PATENT AND TRADEMARK OFFICE
2051 Jamieson Avenue
Suite 300
Alexandria, VA

Attn: Refund Department

Re: Deposit Account Number 150030

Dear Sir or Madame:

Enclosed is a copy of a portion of our Deposit Account Statement of June 2006. Please review the highlighted charge on **Serial Number** 10/826, 374 **in the amount of $200.00 on fee code number 1201.**

This charge is in error as there was only one Independent Claim remaining after the June 15, 2006 Admentment. Please review the highlighted copy of the claims as filed with the Amendment.

Please review this application and kindly refund $200.00 to deposit account number 150030. Copies of the appropriate paperwork are attached. If you have any questions, please contact Scott Lohr at (703) 412-6472. Thank you for your assistance.

Sincerely,

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.

Scott Lohr

Enclosure: Deposit Account Statement

MASTER

United States Patent and Trademark Office

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Deposit Account Statement

Requested Statement Month:	June 2006
Deposit Account Number:	150030
Name:	NORMAN F. OBLON
Attention:	
Address:	1940 DUKE STREET
City:	ALEXANDRIA
State:	VA
Zip:	22314
Country:	UNITED STATES

DATE	SEQ	POSTING REF TXT	ATTORNEY DOCKET NBR	FEE CODE	AMT	BAL	
06/01	3	10974831	261039US0	1202	$300.00	$20,715.71	
06/01	12	10543930	276244US0PCT	1615	-$650.00	$21,365.71	
06/01	12	10553124	279689US0XPCT	1615	$50.00	$21,315.71	
06/01	108	11443217	291721US8	1011	$300.00	$21,015.71	
06/01	109	11443217	291721US8	1111	$500.00	$20,515.71	
06/01	110	11443217	291721US8	1311	$200.00	$20,315.71	
06/01	111	11443217	291721US8	1201	$200.00	$20,115.71	
06/01	112	11443217	291721US8	1051	$130.00	$19,985.71	
06/01	113	11443217	291721US8	1081	$250.00	$19,735.71	
06/01	172	11311239	283282US/KQU	8007	$20.00	$19,715.71	
06/01	173	11311239	283282US/KQU	8013	$25.00	$19,690.71	
06/02	1	11443217	291721US8	1011	-$300.00	$19,990.71	
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06/02	3	11443217	291721US8	1311	-$200.00	$20,510.71	
06/02	4	11443217	291721US8	1201	-$200.00	$20,710.71	
06/02	5	11443217	291721US8	1051	-$130.00	$20,840.71	
06/02	6	11443217	291721US8	1081	-$250.00	$21,090.71	
06/05	1	10792607	245526US2	1806	$180.00	$20,910.71	
06/05	2	09585870	203744US	1202	$90.00	$20,820.71	
06/05	27	11418218	290097US0	1202	-$150.00	$20,970.71	
06/05	123	11230473	275538US6CONT	1814	$130.00	$20,840.71	OK
06/05	124	10278493	282693US	1251	$120.00	$20,720.71	OK
06/05	152	11445382	291998US23DIV	1201	$800.00	$19,920.71	
06/05	195	10416882	236616USOPCT	1202	$500.00	$19,420.71	
06/06	2	09961255	213954US2	1252	$30.00	$19,390.71	
06/06	3	10937566	258838US0CONT	1806	$180.00	$19,210.71	

✓	06/16	1	10566403	283723US0PCT	1615	$50.00	$23,355.71
✓	06/16	20	09657907	197115 US	9204	-$740.00	$24,095.71
	06/19	1	10399038	236175US6PCT	1202	$100.00	$23,995.71
✓	06/19	1	10482332	246058US3XPCT	1251	$120.00	$23,875.71
✓	06/19	5	10614814	240046US2S	1201	$200.00	$23,675.71
	06/19	12	11435780	290955US96CONT	1202	$1,200.00	$22,475.71
	06/19	27	10529478	267258	2202	-$175.00	$22,650.71
	06/19	129	10468107	240712US0XPCT	1252	-$450.00	$23,100.71
	06/20	1	10675816	250882 us	1201	$600.00	$22,500.71
	06/20	2	10675816	250882 us	1201	$1,200.00	$21,300.71
	06/20	3	10675816	250882 us	1202	$350.00	$20,950.71
	06/20	7	10319497	231524US-2SR	1811	-$100.00	$21,050.71
	06/20	191	60712389	277774US/KQU	8007	$60.00	$20,990.71
	06/21	1	10826374	251990US0	1201	$200.00	$20,790.71
✓	06/21	1	10311220	231713US6PCT	1251	$120.00	$20,670.71
	06/21	31	10158145	223700US0	1202	$300.00	$20,370.71
	06/21	32	10158145	223700US0	1253	$1,020.00	$19,350.71
✓	06/21	103	60788726	289343US	1052	$50.00	$19,300.71
	06/22	80	6114391	4158-0013	8013	$25.00	$19,275.71
✓	06/23	1	08883492	5244-054-2X	1806	$180.00	$19,095.71
	06/23	3	10493313	250869US3PCT	1201	$200.00	$18,895.71
✓	06/23	3	10550857	278868US0PCT	1681	$750.00	$18,145.71
✓	06/23	39	11471702	292826US0DIV	1203	$100.00	$18,045.71
	06/23	219	60699374	275161US/KQU	8007	$20.00	$18,025.71
✓	06/26	18	60812077	292385US96PROV	1085	$250.00	$17,775.71
	06/26	125	0174410298	257086WO/TEP/FF	8014	$25.00	$17,750.71
✓	06/27	3	10478473	245656US0PCT	1806	$180.00	$17,570.71
✓	06/27	20	10821950	251327US3X	8001	$30.00	$17,540.71
	06/29	1	10182776	226049US0PCT	1811	-$100.00	$17,640.71
✓	06/29	2	10349081	232012US-20DIV	2501	$700.00	$16,940.71
✓	06/29	3	10349081	232012US-20DIV	1504	$300.00	$16,640.71
✓	06/29	4	10349081	232012US-20DIV	8001	$30.00	$16,610.71
✓	06/29	216	60705485	276698US/KQU	8007	$60.00	$16,550.71
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	06/30	5	10400697	233531US0	1806	-$180.00	$16,450.71
	06/30	8	10433611	237944USOPCT	1806	-$180.00	$16,630.71
	06/30	9	10200164	225886US2SRD	1806	-$180.00	$16,810.71
	06/30	10	10262317	228930US0	1806	-$180.00	$16,990.71
	06/30	11	10832422	252538US3	1806	-$180.00	$17,170.71
	06/30	299	60528181	266255IN (FF.DEPT.)	8007	$20.00	$17,150.71
	06/30	305	0124790388	200781US/KQU	8014	$25.00	$17,125.71

START BALANCE	SUM OF CHARGES	SUM OF REPLENISH	END BALANCE
$21,015.71	$20,525.00	$16,635.00	$17,125.71

1595934

Docket No. 251990US0
IN RE APPLICATION OF: Takayuki HAMADA, et al.
SERIAL NO: 10/826,374
FILED: April 19, 2004
FOR: PRODUCTION METHOD FOR OPTICALLY ACTIVE N-ARYL-BETA-AMINO ACID COMPOUNDS

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:
Transmitted herewith is an Amendment and Request for Reconsideration w/attached Substitute Abstract in the above-identified application.

☐ No additional fee is required

☐ Small entity status of this application under 37 C.F.R. §1.9 and §1.27 is claimed.

■ Additional documents filed herewith: Request for Extension of Time - Two Months
Information Disclosure Statement
Form PTO 1449
Cited References (3)

The Fee has been calculated as shown below:

CLAIMS	CLAIMS REMAINING		HIGHEST NUMBER PREVIOUSLY PAID	NO. EXTRA CLAIMS	RATE	CALCULATIONS
TOTAL	18	MINUS	20	0	x $50 =	$0.00
INDEPENDENT	1	MINUS	3	0	x $200 =	$0.00
APPLICATION SIZE		MINUS	100	0 (each addtl. 50 sheets)	x $250 =	$0.00
		☐ MULTIPLE DEPENDENT CLAIMS			+ $360 =	$0.00
		TOTAL OF ABOVE CALCULATIONS				$0.00
		☐ Reduction by 50% for filing by Small Entity				$0.00
		TOTAL				$0.00

■ Credit card payment form is attached to cover the fees in the amount of $630.00

■ Please charge any additional Fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit Account No. 15-0030. A duplicate copy of this sheet is enclosed.

■ If these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under 37 C.F.R. §1.136, and any additional fees required under 37 C.F.R. §1.136 for any necessary extension of time may be charged to Deposit Account No. 15-0030. A duplicate copy of this sheet is enclosed.

OBLON, SPIVAK, McCLELLAND,
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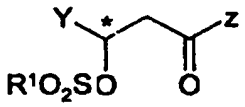
AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A ~~production~~ method of producing an optically active N-aryl-β-amino acid compound ~~characterized in that~~ comprising reacting an optically active sulfonate ~~compounds~~ compound represented by the ~~following general~~ formula (1):



(1)

~~[in this formula,~~ wherein

Y ~~indicates~~ is an optionally substituted methyl group or aryl group,

Z ~~stands for~~ is a hydroxy group, optionally substituted amino group, optionally substituted alkoxy group or optionally substituted aryloxy group,

R^1 ~~represents~~ is an optionally substituted alkyl group with a carbon atom number from 1 to 10, an optionally substituted aryl group with a carbon atom number from 6 to 15, an optionally substituted aralkyl group with a carbon atom number from 7 to ~~20. Further,~~ 20, and

* indicates an ~~optically active~~ chiral carbon atom, in the R or S ~~configuration]~~ configuration;

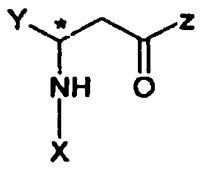
~~are reacted~~ with an aromatic amine represented by ~~the following~~ formula (2):

$X\text{-}NH_2$ (2)

~~[in this formula~~ wherein

X ~~stands for~~ is an optionally substituted aryl group with a carbon atom number from 6 to 15 or an optionally substituted heteroaromatic group with a carbon atom number from 3 to ~~15.~~ 15;

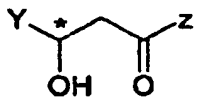
to produce ~~the~~ said optically active N-aryl-β-amino acid ~~compounds~~ compound, wherein said optically active N-aryl-β-amino acid compound is represented by ~~the following~~ formula ~~(3).~~ (3):



(3)

~~{in this formula~~ wherein X, Y, Z and * ~~have the same meaning as described above.}~~ are as defined above.

2. (Currently Amended) ~~A production~~ The method as claimed in claim 1 further comprising a ~~process, in which by the reaction of~~ producing a compound of formula (1) by reacting an optically active β-hydroxycarboxylic acid ~~compounds~~ compound represented by ~~the following~~ formula (5):

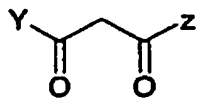


(5)

~~{in this formula,~~ wherein Y, Z and * ~~show the same meaning as described above.}~~ are as defined in claim 1;

with sulfonyl chlorides or sulfonic acid anhydride~~, the optically active sulfonate compounds represented by the above described formula (1) are manufactured~~.

3. (Currently Amended) ~~A production~~ The method as claimed in claim 2 further comprising ~~a process, in which by the~~ producing a compound of formula (5) by contacting an asymmetric reduction of a β-keto carboxylic acid ~~compounds~~ compound represented by ~~the following~~ formula (4)



(4)

~~[in this formula,~~ wherein Y and Z ~~have the same meaning as described above.]~~ are as defined in claim 2;

~~in the presence of~~ with a catalyst or enzyme~~, the optically active β-hydroxycarboxylic acid compounds represented by the above described formula (5) are manufactured~~.

4. (Currently Amended) ~~A production~~ The method ~~for the optically active N-aryl β-amino acid compounds~~ as claimed in ~~any of the claims 1 to 3 characterized in that~~ claim 1, wherein R^1 in the sulfonate ~~compounds, represented by the above described~~ compound of formula ~~(1),~~ (1) is a trifluoromethyl, methyl or p-tolyl group.

5. (Currently Amended) ~~A production~~ The method ~~for the optically active N-aryl β-amino acid compounds~~ as claimed in claim 4 ~~characterized in that,~~ wherein R^1 in the

sulfonate ~~compounds, represented by the above described~~ compound of formula ~~(1),~~ (1) is trifluoromethyl.

6. (Currently Amended) ~~A production~~ The method ~~for the optically active N-aryl β-amino acid compounds as claimed in any of the claims 1 to 5 characterized in that~~ as claimed in claim 1, wherein in the sulfonate ~~compounds, represented by the above described~~ compound of formula ~~(1),~~ (1) the ~~relevant~~ sulfonyl group is introduced by using trifluoromethanesulfonic acid anhydride as a sulfonylation agent and ~~that~~ R^1 is a trifluoromethyl group.

7. (Currently Amended) ~~A production~~ The method ~~for the optically active N-aryl β-amino acid compounds as claimed in any of the claims 1 to 6 characterized in that the relevant reaction is carried out~~ as claimed in claim 1, wherein said reacting is at a temperature of 5°C ~~and~~ or less.

8. (New) The method as claimed in claim 2, wherein R^1 in the sulfonate compound of formula (1) is a trifluoromethyl, methyl or p-tolyl group.

9. (New) The method as claimed in claim 8, wherein R^1 in the sulfonate compound of formula (1) is trifluoromethyl.

10. (New) The method as claimed in claim 2, wherein in the sulfonate compound of formula (1) the sulfonyl group is introduced by using trifluoromethanesulfonic acid anhydride as a sulfonylation agent and R^1 is a trifluoromethyl group.

11. (New) The method as claimed in claim 2, wherein said reacting is at a temperature of 5°C or less.

12. (New) The method as claimed in claim 3, wherein R^1 in the sulfonate compound of formula (1) is a trifluoromethyl, methyl or p-tolyl group.

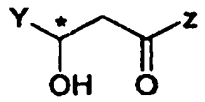
13. (New) The method as claimed in claim 12, wherein R^1 in the sulfonate compound of formula (1) is trifluoromethyl.

14. (New) The method as claimed in claim 3, wherein in the sulfonate compound of formula (1) the sulfonyl group is introduced by using trifluoromethanesulfonic acid anhydride as a sulfonylation agent and R^1 is a trifluoromethyl group.

15. (New) The method as claimed in claim 3, wherein said reacting is at a temperature of 5°C or less.

16. (New) The method as claimed in claim 3, wherein said catalyst is a Ru-binap catalyst.

17. (New) The method of claim 1, wherein an optically active β-hydroxycarboxylic acid compound represented by formula (5):



(5)

wherein Y, Z and * are as defined in claim 1;

is reacted with a sulfonylating reagent in the presence of an organic teritiary amine to produce said optically active sulfonate compound represented by the formula (1).

18. (New) The method of claim 17, wherein said optically active sulfonate compound represented by the formula (1) is reacted with said aromatic amine represented by formula (2) without isolation from the reaction mixture.

Document code: WFEE

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